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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,667	03/10/2006	Taisuke Matsumoto	MAT-8703US	4670	
23122 RATNERPRES	7590 12/23/200 STIA	EXAMINER			
P.O. BOX 980	CE DA 10492	NOORISTANY, SULAIMAN			
VALLEY FORGE, PA 19482			ART UNIT	PAPER NUMBER	
			2446		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/539,667	MATSUMOTO ET AL.		
Examiner	Art Unit		
SULAIMAN NOORISTANY	2446		

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The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress
THE REPLY FILED 15 October 2009 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following rapplication in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:	eplies: (1) an amendment, affidavi al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this Ac no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (I MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	dvisory Action, or (2) the date set forth ter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection	n.
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extrunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.1 ension and the corresponding amount of hortened statutory period for reply origi	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as
 The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS 	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, b (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below (c) They are not deemed to place the application in bett appeal; and/or	sideration and/or search (see NOTw);	TE below);	
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. ☐ The amendments are not in compliance with 37 CFR 1.12			PTOL-324)
 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) would be allered. 			•
non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration:		l be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
9. The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	ıl and/or appellant fail:	s to provide a
10. \square The affidavit or other evidence is entered. An explanation	of the status of the claims after er	ntry is below or attach	ed.
 REQUEST FOR RECONSIDERATION/OTHER 11. ☐ The request for reconsideration has been considered but see continuation. 	does NOT place the application in	condition for allowan	ce because:
12. Note the attached Information <i>Disclosure Statement</i> (s). (13. Other:	PTO/SB/08) Paper No(s).		
/Jeffrey Pwu/ Supervisory Patent Examiner, Art Unit 2446	/S. N./ Examiner, Art Unit 2446		

Applicant Arguments:

Lamberton does not disclose the user of master router and backup routers. In addition, other references cited by the Examiner do disclose the use of a master router and backup routers. Thus, it is improper to combine Lamberton (no disclosure of master/backup routers) with the other references of record (disclosure of master/backup routers).

Examiner Response:

Lamberton discloses in Fig. 2, wherein the figure shows a configuration with two virtual routers [220] and [230] with the hosts splitting their traffic between them. In the above configuration, half of the hosts, i.e.: hosts [211] and [212], install a default route [240] to virtual router [220] having IP address [IPA] and the other half of the hosts i.e.: hosts [213] and [214], install a default route [250] to virtual router [230] having IP address [IPA]. This has the effect of load balancing somehow the outgoing traffic, while also providing full redundancy because if router [220] is the master for two of the hosts [211] and [212] VRRP protocol allows it to be also a back up for the other two hosts [213] and [214]. And the reverse is true for router [230]. Then, on contrary of the previous example, in normal operation the two routers are active and forward IP traffic contributing to achieve overall better performance for the LAN. Should one of the router fail the one remaining will have to bear the whole traffic until situation soon returns to normal. Thus, the customers on the LAN are most of the time benefiting of the performance of the two routers working in concert.

Shigehashi further discloses that said plural routers form one virtual router, which is handled as a router having one IP address from the node of the transmitter. Therefore, no matter which router VRRP selects, the packets from the node of the transmitter are always transmitted with respect to one IP address. For VRRP, hello packet is exchanged at a certain interval between the routers to check whether each router i~ in the normal state – [0004]. This is known as health check. Also, the priority of the router that sends the hello packet is included in said hello packet. Each router compares said priority with its own priority to determine which router is the active router (master router) that should process the packets. In other words, the router with the highest priority is automatically set as the active router, while other routers are used as standby routers (backup routers) -- [0005]. The router set as the master router represents a group of routers defined as one virtual router to process the received packets. If the master router is unable to carry out communication due to trouble or other reason, other backup routers will detect that the master router does not respond to the hello packet. Among the backup routers, the one with the highest priority is set to the next master router having the same IP address as said master router -- [0006].

Kuo further discloses in Fig. 2, sitting between the VSRP aware switches 210, 212, and 214 and the network core 220 are a series of VSRP switches 204, 206 and 208. As is explained herein, each of the VSRP switches 204, 206 and 208 communicates with other VSRP switches according to the VSRP protocol. Communication according to the protocol allows devices in a virtual switch to determine whether it should set itself to master mode, backup mode, or an intermediary mode described below, for the group of supported devices, thereby providing failure redundancy and avoiding network loops. The VSRP switches 204, 206 and 208 are configured as one virtual switch 202, providing redundant routes to the network core 220 in the event that the current VSRP master switch 204 within the virtual switch 202 becomes inoperative, e.g., not the optimal switch to be acting as master for a given virtual circuit 202.

In addition, as is explained in greater detail herein, a priority value determines whether a VSRP device is in master or backup mode. One of the factors in determining priority value is the number of connections the VSRP device has vis-a-vis other VSRP devices comprising the same virtual switch. FIG. 3 presets a situation where the VSRP device currently in master mode 304 has lost communication 314 with a VSRP aware switch 310 located on the far side of an intermediate hub 308, which is an unmanaged device. According to the present invention, detailed knowledge of the overall network is not required, only knowledge that the VSRP aware switches being backed up are symmetrically connected to the VSRP switches comprising the virtual switch. Knowledge at each VSRP switch comprising the virtual switch that a "live" connection exists to every immediate supported neighbor (here, a VSRP aware switch) is necessary in order to provide failover when an outage occurs (col. 6, lines 26 – col. 7, lines 16). Therefore, examiner maintains the rejection.